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|---------------------------------------------------------------------------------------|-----------------------------|-------------------------------|--------------|
| <b>TRANSMITTAL FORM</b><br>(to be used for all correspondence and initial filing)<br> | <b>Application Number</b>   | 10/090,427                    |              |
|                                                                                       | <b>Filing Date</b>          | 02/28/02                      |              |
|                                                                                       | <b>First Named Inventor</b> | Friddle                       |              |
|                                                                                       | <b>Group Art Unit</b>       | 1633                          |              |
|                                                                                       | <b>Examiner Name</b>        | To Be Assigned                |              |
| <b>Total Number of Pages in This Submission</b>                                       | 6                           | <b>Attorney Docket Number</b> | LEX-0313-USA |

| ENCLOSURES (check all that apply)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <br><b>24231</b><br>PATENT, TRADEMARK OFFICE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |                                                                    |
|--------------------------------------------|--------------------------------------------------------------------|
| Firm or Individual name                    | Lance K. Ishimoto Reg. No. 41,866<br>Lexicon Genetics Incorporated |
| Signature                                  | <br>Peter G. Seferian Reg. No. 40162                               |
| Date                                       | May 31, 2002                                                       |

| CERTIFICATE OF MAILING                                                                                                                                                                                                                                                                                                                  |              |      |              |
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| Typed or printed name                                                                                                                                                                                                                                                                                                                   | Nancy Stacey |      |              |
| Signature                                                                                                                                                                                                                                                                                                                               |              | Date | May 31, 2002 |

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Friddle et al.

Application No.: 10/090,427

Filed: 02/28/02

Group Art Unit: 1633

Title: Novel Human Semaphorin and  
Polynucleotides Encoding the Same

Examiner: To Be Assigned

Attorney Docket No.: LEX-0313-USA

Commissioner for Patents  
Washington, D.C. 20231  
Box DD

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Dear Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:  
☐ Certification under 37 CFR 1.97(e), or  
☐ a \$240.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
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☐ a \$130.00 petition fee set forth in 37 CFR 1.17(i)(1).  
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REC- 001-001-0000-2900

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It is requested that the information disclosed herein be made of record in this application.

Respectfully submitted,

*Lance K. Ishimoto by Peter G. Self* *Peter G. Self*  
Lance K. Ishimoto Reg. No. 41,866  
*Reg No 41866*

LEXICON GENETICS INCORPORATED  
(281) 863-3333



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PATENT TRADEMARK OFFICE



Substitute for form 1449A PTO

**Complete if Known**

|                               |                |
|-------------------------------|----------------|
| <b>Application Number</b>     | 10/090,427     |
| <b>Filing Date</b>            | 02/28/02       |
| <b>First Named Inventor</b>   | Friddle        |
| <b>Group Art Unit</b>         | 1633           |
| <b>Examiner Name</b>          | To be assigned |
| <b>Attorney Docket Number</b> | LEX-0313-USA   |

Sheet 1 of 3

| Examiner Initials* | Cite No.  | U.S. Patent Document |                                             | Name of Patentee or Applicant<br>of Cited Document | Date of Publication<br>of cited Document<br>MM-DD-YYYY | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear |
|--------------------|-----------|----------------------|---------------------------------------------|----------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------------|
|                    |           | Number               | Kind Code <sup>2</sup><br><i>(if known)</i> |                                                    |                                                        |                                                                                    |
| AA                 | 4,215,051 |                      | Schroeder et al                             | 07/29/80                                           |                                                        |                                                                                    |
| AB                 | 4,376,110 |                      | David et al                                 | 03/08/83                                           |                                                        |                                                                                    |
| AC                 | 4,594,595 |                      | Struckman                                   | 06/10/86                                           |                                                        |                                                                                    |
| AD                 | 4,631,211 |                      | Houghten                                    | 12/23/86                                           |                                                        |                                                                                    |
| AE                 | 4,689,405 |                      | Frank et al                                 | 08/25/87                                           |                                                        |                                                                                    |
| AF                 | 4,713,326 |                      | Dattagupta et al                            | 12/15/87                                           |                                                        |                                                                                    |
| AG                 | 4,873,191 |                      | Wagner et al                                | 10/10/89                                           |                                                        |                                                                                    |
| AH                 | 4,946,778 |                      | Ladner et al                                | 08/07/90                                           |                                                        |                                                                                    |
| AI                 | 5,252,743 |                      | Barrett et al                               | 10/12/93                                           |                                                        |                                                                                    |
| AJ                 | 5,272,057 |                      | Smulson et al                               | 12/21/93                                           |                                                        |                                                                                    |
| AK                 | 5,424,186 |                      | Fodor et al                                 | 06/13/95                                           |                                                        |                                                                                    |
| AL                 | 5,445,934 |                      | Fodor et al                                 | 08/29/95                                           |                                                        |                                                                                    |
| AM                 | 5,459,127 |                      | Felgner et al                               | 10/17/95                                           |                                                        |                                                                                    |
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| AO                 | 5,700,637 |                      | Southern                                    | 12/23/97                                           |                                                        |                                                                                    |
| AQ                 | 5,744,305 |                      | Fodor et al                                 | 04/28/98                                           |                                                        |                                                                                    |
| AQ                 | 5,830,721 |                      | Stemmer et al                               | 11/03/98                                           |                                                        |                                                                                    |
| AR                 | 5,837,458 |                      | Minshull et al                              | 11/17/98                                           |                                                        |                                                                                    |
| AS                 | 5,869,336 |                      | Meyer et al                                 | 02/09/99                                           |                                                        |                                                                                    |
| AT                 | 5,877,397 |                      | Lonberg et al                               | 03/02/99                                           |                                                        |                                                                                    |
| AU                 | 5,948,767 |                      | Scheule et al                               | 09/07/99                                           |                                                        |                                                                                    |
| AV                 | 5,981,222 |                      | Jacobs et al                                | 11/09/99                                           |                                                        |                                                                                    |
| AW                 | 6,013,781 |                      | Goodman et al                               | 01/11/00                                           |                                                        |                                                                                    |
| AX                 | 6,075,181 |                      | Kucherlapati et al                          | 06/13/00                                           |                                                        |                                                                                    |
| AY                 | 6,110,490 |                      | Thierry                                     | 08/29/00                                           |                                                        |                                                                                    |
| AZ                 | 6,150,584 |                      | Kucherlapati et al                          | 11/21/00                                           |                                                        |                                                                                    |
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|                                                                                                                                               |   | Application Number       | 10/090,427     |                        |              |
|                                                                                                                                               |   | Filing Date              | 02/28/02       |                        |              |
|                                                                                                                                               |   | First Named Inventor     | Friddle        |                        |              |
|                                                                                                                                               |   | Group Art Unit           | 1633           |                        |              |
|                                                                                                                                               |   | Examiner Name            | To be assigned |                        |              |
| Shee                                                                                                                                          | 2 | of                       | 3              | Attorney Docket Number | LEX-0313-USA |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS |                       |                                                                                                                                                                                                                                                                 |                |
|---------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Examiner Initials*                                | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                                   | BA                    | Bird et al, 1988, "Single-Chain Antigen-Binding Proteins", Science 242:423-426.                                                                                                                                                                                 |                |
|                                                   | BB                    | Bitter et al, 1987, "Expression and Secretion Vectors for Yeast", Methods in Enzymology 153:516-544.                                                                                                                                                            |                |
|                                                   | BC                    | Colbere-Garapin et al, 1981, "A New Dominant Hybrid Selective Marker for Higher Eukaryotic Cells", J. Mol. Biol. 150:1-14.                                                                                                                                      |                |
|                                                   | BD                    | Cote et al., 1983, "Generation of human monoclonal antibodies reactive with cellular antigens," Proc. Natl. Acad. Sci. USA 80:2026-2030.                                                                                                                        |                |
|                                                   | BE                    | Gautier et al, 1987, "α-DNA IV: α-anomeric and β-anomeric tetrathymidylates covalently linked to intercalating oxazopyridocarbazole. Synthesis, physicochemical properties and poly (rA) binding", Nucleic Acids Research 15(16):6625-6641.                     |                |
|                                                   | BF                    | Gordon, 1989, "Transgenic Animals", International Review of Cytology, 115:171-229.                                                                                                                                                                              |                |
|                                                   | BG                    | Greenspan et al, 1993, "Idiotypes: structure and immunogenicity", FASEB Journal 7:437-444.                                                                                                                                                                      |                |
|                                                   | BH                    | Gu et al, 1994, "Deletion of a DNA Polymerase β Gene Segment in T Cells Using Cell Type-Specific Gene Targeting", Science 265:103-106.                                                                                                                          |                |
|                                                   | BI                    | Huse et al, 1989, "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda", Science 246:1275-1281.                                                                                                                        |                |
|                                                   | BJ                    | Huston et al, 1988, "Protein engineering of antibody binding sites: Recovery of specific activity in an anti-digoxin single-chain Fv analogue produced in Escherichia coli", Proc. Natl. Acad. Sci. USA 85:5879-5883.                                           |                |
|                                                   | BK                    | Inoue et al, 1987, "Sequence-dependent hydrolysis of RNA using modified oligonucleotide splints and R Nase H", FEBS Letters 215(2):327-330.                                                                                                                     |                |
|                                                   | BL                    | Inoue et al, 1987, "Synthesis and hybridization studies on two complementary nona(2'-O-methyl)ribonucleotides", Nucleic Acids Research 15(15):6131-6149.                                                                                                        |                |
|                                                   | BM                    | Inouye & Inouye, 1985, "Up-promoter mutations in the lpp gene of Escherichia coli", Nucleic Acids Research 13(9):3101-3110.                                                                                                                                     |                |
|                                                   | BN                    | Janknecht et al, 1991, "Rapid and efficient purification of native histidine-tagged protein expressed by recombinant vaccinia virus", PNAS 88:8972-8976.                                                                                                        |                |
|                                                   | BO                    | Kohler & Milstein, 1975, "Continuous cultures of fused cells secreting antibody of predefined specificity", Nature 256:495-497.                                                                                                                                 |                |
|                                                   | BP                    | Lakso et al, 1992, "Targeted oncogene activation by site-specific recombination in transgenic mice", Proc. Natl. Acad. Sci. USA 89:6232-6236.                                                                                                                   |                |
|                                                   | BQ                    | Lavitrano et al, 1989, "Sperm Cells as Vectors for Introducing Foreign DNA into Eggs: Genetic Transformation of Mice", Cell 57:717-723.                                                                                                                         |                |
|                                                   | BR                    | Lo, 1983, "Transformation by Iontophoretic Microinjection of DNA: Multiple Integrations without Tandem Insertions", Mol. & Cell. Biology 3(10):1803-1814.                                                                                                       |                |

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| Examiner Signature |  | Date Considered |  |
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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) |          | <b>Application Number</b>     | 10/090,427     |
|                                                                                                   |          | <b>Filing Date</b>            | 02/28/02       |
|                                                                                                   |          | <b>First Named Inventor</b>   | Friddle        |
|                                                                                                   |          | <b>Group Art Unit</b>         | 1633           |
|                                                                                                   |          | <b>Examiner Name</b>          | To be assigned |
|                                                                                                   |          | <b>Attorney Docket Number</b> | LEX-0313-USA   |
| <b>Sheet</b>                                                                                      | <b>3</b> | <b>of</b>                     | <b>3</b>       |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS |                       |                                                                                                                                                                                                                                                                 |                |
|---------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Examiner Initials*                                | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                                                   | BS                    | Logan et al, 1984, "Adenovirus tripartite leader sequence enhances translation of mRNAs late after infection", Proc. Natl. Acad. Sci. USA 81:3655-3659.                                                                                                         |                |
|                                                   | BT                    | Lowy et al, 1980, "Isolation of Transforming DNA: Cloning the Hamster apt Gene", Cell 22:817-823.                                                                                                                                                               |                |
|                                                   | BU                    | Morrison et al, 1984, "Chimeric human antibody molecules: Mouse antigen-binding domains with human constant region domains", Proc. Natl. Acad. Sci. USA 81:6851-6855.                                                                                           |                |
|                                                   | BV                    | Mulligan & Berg, 1981, "Selection for animal cells that express the Escherichia coli gene coding for xanthine-guanine phosphoribosyltransferase", Proc. Natl. Acad. Sci. USA 78(4):2072-2076.                                                                   |                |
|                                                   | BW                    | Neuberger et al, 1984, "Recombinant antibodies possessing novel effector functions", Nature 312:604-608.                                                                                                                                                        |                |
|                                                   | BX                    | Nisonoff, 1991, "Idiotypes: Concepts and Applications", J. of Immunology 147:2429-2438.                                                                                                                                                                         |                |
|                                                   | BY                    | O'Hare et al, 1981, "Transformation of mouse fibroblasts to methotrexate resistance by a recombinant plasmid expressing a prokaryotic dihydrofolate reductase", Proc. Natl. Acad. Sci. USA 78(3):1527-1531.                                                     |                |
|                                                   | BZ                    | Ruther et al, 1983, "Easy identification of cDNA clones", EMBO Journal 2(10):1791-1794.                                                                                                                                                                         |                |
|                                                   | CA                    | Santerre et al, 1984, "Expression of prokaryotic genes for hygromycin B and G418 resistance as dominant-selection markers in mouse L cells", Gene 30:147-156.                                                                                                   |                |
|                                                   | CB                    | Sarin et al, 1988, "Inhibition of acquired immunodeficiency syndrome virus by oligodeoxynucleoside methylphosphonates", Proc. Natl. Acad. Sci. USA 85:7448-7451.                                                                                                |                |
|                                                   | CC                    | Smith et al, 1983, "Molecular Engineering of the Autographa californica Nuclear Polyhedrosis Virus Genome: Deletion Mutations within the Polyhedrin Gene", J. Virol. 46(2):584-593.                                                                             |                |
|                                                   | CD                    | Stein et al, 1988, "Physicochemical properties of phosphorothioate oligodeoxynucleotides", Nucleic Acids Research 16(8):3209-3221.                                                                                                                              |                |
|                                                   | CE                    | Szybalska & Szybalski, 1962, "Genetics of Human Cell Lines, IV. DNA-Mediated Heritable Transformation of a Biochemical Trait", Proc. Natl. Acad. Sci. USA 48:2026-2034.                                                                                         |                |
|                                                   | CF                    | Takeda et al, 1985, "Construction of chimaeric processed immunoglobulin genes containing mouse variable and human constant region sequences", Nature 314 452-454.                                                                                               |                |
|                                                   | CG                    | Thompson et al, 1989, "Germ Line Transmission and Expression of a Corrected HPRT Gene Produced by Gene Targeting in Embryonic Stem Cells", Cell 56:313-321.                                                                                                     |                |
|                                                   | CH                    | Van Der Putten et al, 1985, "Efficient insertion of genes into the mouse germ line via retroviral vectors", Proc. Natl. Acad. Sci. USA 82:6148-6152.                                                                                                            |                |
|                                                   | CI                    | Van Heeke et al, 1989, "Expression of Human Asparagine Synthetase in Escherichia coli", J. Biol. Chemistry 264(10):5503-5509.                                                                                                                                   |                |
|                                                   | CJ                    | Ward et al, 1989, "Binding activities of a repertoire of single immunoglobulin variable domains secreted from Escherichia coli", Nature 341:544-546.                                                                                                            |                |
|                                                   | CK                    | Wigler et al, 1977, "Transfer of Purified Herpes Virus Thymidine Kinase Gene to Cultured Mouse Cells", Cell 11:223-232.                                                                                                                                         |                |
|                                                   | CL                    | Wigler et al, 1980, "Transformation of mammalian cells with an amplifiable dominant-acting gene", Proc. Natl. Acad. Sci. USA 77(6):3567-3570.                                                                                                                   |                |

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|--------------------|--|-----------------|--|
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